



Uncooled Thermal Imaging Arrays, Systems, and Applications (SPIE Tutorial Texts in Optical Engineering Vol. TT51)

Paul W. Kruse

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The development of uncooled infrared focal plane arrays began with the military's need to see the battlefield at night without any form of illumination. While the early arrays involved use of cryogenic systems, a new class of detection mechanisms that didn't require cryogenic operation was developed in the United States in the 1980s. The author has been involved in development of this technology since then. This book is an introduction for both professionals and students. It covers uncooled thermal detection methods, fundamental performance limits, theoretical performance of thermoelectric, resistive, bolometric, and pyroelectric detection mechanisms, state-of-the-art in uncooled arrays, imaging systems, applications, and trends.

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